



OPEN UNIVERSITY
MALAYSIA



OPEN EDUCATIONAL RESOURCES

Concept

1. Origin
2. Definition
3. Types of OER

Practice

1. Licensing
2. Adapting OER
3. Prominent OER sites
4. Pedagogical Model
5. Latest on OER

The Way Forward

ORIGIN



OER

- First coined by UNESCO in 2002
- at its Forum on the Impact of Open Courseware for Higher Education in Developing Countries



Open Content

- First used by David Wiley, Associate Professor of Instructional Psychology and Technology at Brigham Young University, USA
- Refers to all types of materials (music, video, text); may not necessarily have an educational purpose



AIM OF OER MOVEMENT

To provide more equal access
to knowledge and educational opportunities.

DEFINITION OF OER



teaching, learning and research resources

that reside in the public domain
or have been released under an
intellectual property license

that enables people to use, adapt and
share the materials.

William & Flora Hewlett Foundation

TYPES OF OER

Learning content

- Courses
- Lesson plans
- Learning objects
- Modules
- Lecture notes
- Powerpoint slides
- Videos
- Audio recordings
- Tests

Software tools

- that support content
 - Development
 - Management
 - Re-use

Implementation resources

- Intellectual property licences that promote
 - open licensing
 - other principles of best practice

COPYRIGHT & LICENSING

COPYRIGHT

- ◉ Part of Intellectual Property Rights (IPR)
- ◉ Exclusive rights, given to creators and authors to protect their original works (such as books, movies, music, paintings, software and photographs).
- ◉ One cannot reproduce, copy or transmit copyright material to the public without the permission of the copyright owner.
- ◉ Default rule: All uses not expressly permitted by the copyright holder are prohibited

TAKE NOTE THAT:

A small red letter 'L' icon inside a light blue square.

license

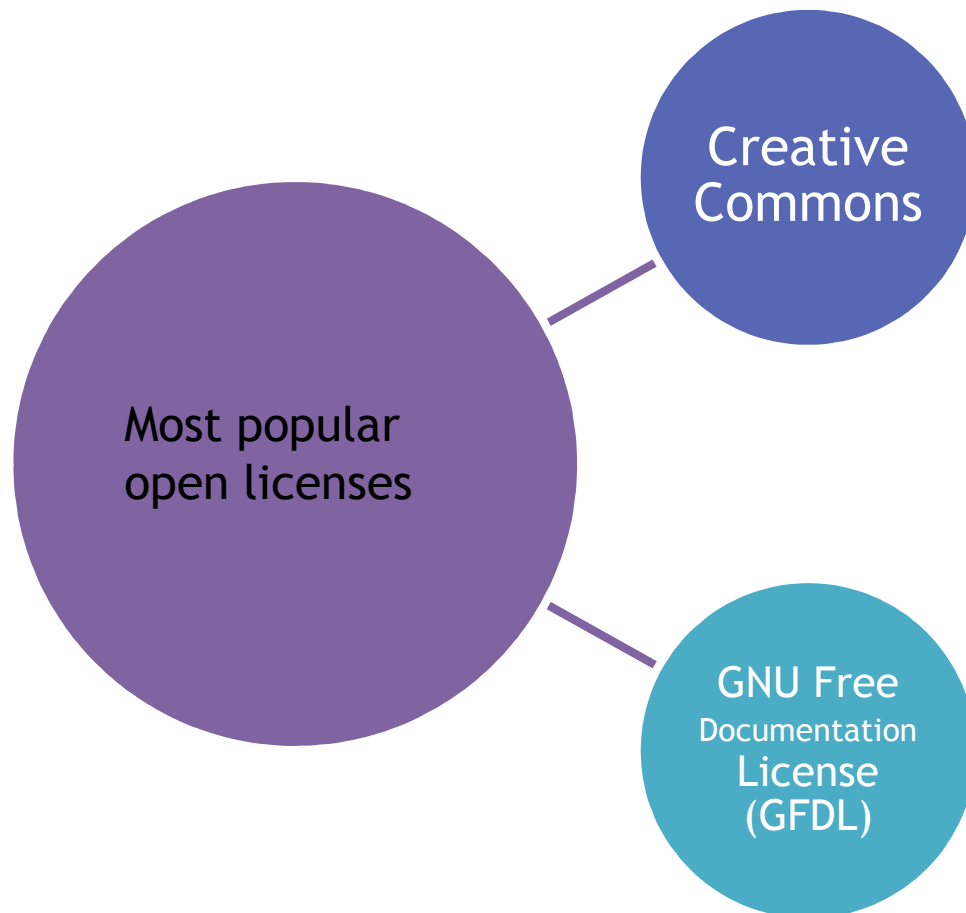
- A resource does not become an OER until it is licensed with an open license

A small red 'WWW' icon inside a light orange square.

website

- OER website stays maintained and available

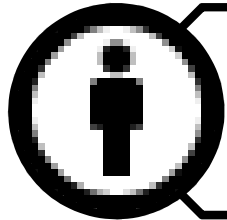
LICENSING



- Advantages of using a popular OER license:
- People are more familiar with these licenses, and are therefore more likely to reuse the material
- Higher chances that the license is compatible with other OER

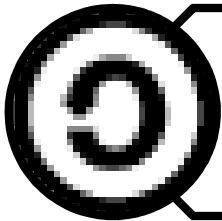
- Note: Currently Creative Commons & GFDL are not compatible; Parts of the material could be licensed with Creative Commons and part GFDL, provided the different sections are clearly defined and marked

CREATIVE COMMONS LICENSE CONDITIONS



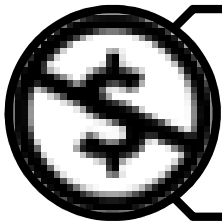
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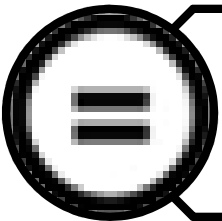
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You let others copy, distribute, display, and perform your work and derivative works based upon it
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NC
Non
Commercial



You let others copy, distribute, display, and perform only verbatim copies of your work, not derivative works based upon it.

ND
No Derivatives

EXAMPLES OF LICENSE POSSIBILITIES



Attribution (BY)



Attribution Share Alike



Attribution No Derivatives



Attribution Non-Commercial



Attribution Non-Commercial Share Alike



Attribution Non-Commercial No Derivatives

WHICH TO USE?

- ◉ Easiest to monitor and manage:
- ◉ CC BY as default → anything originating from creator simply requires attribution and nothing more (Otago Polytechnic: Park and Blackall, 2008)

HOW TO LICENSE

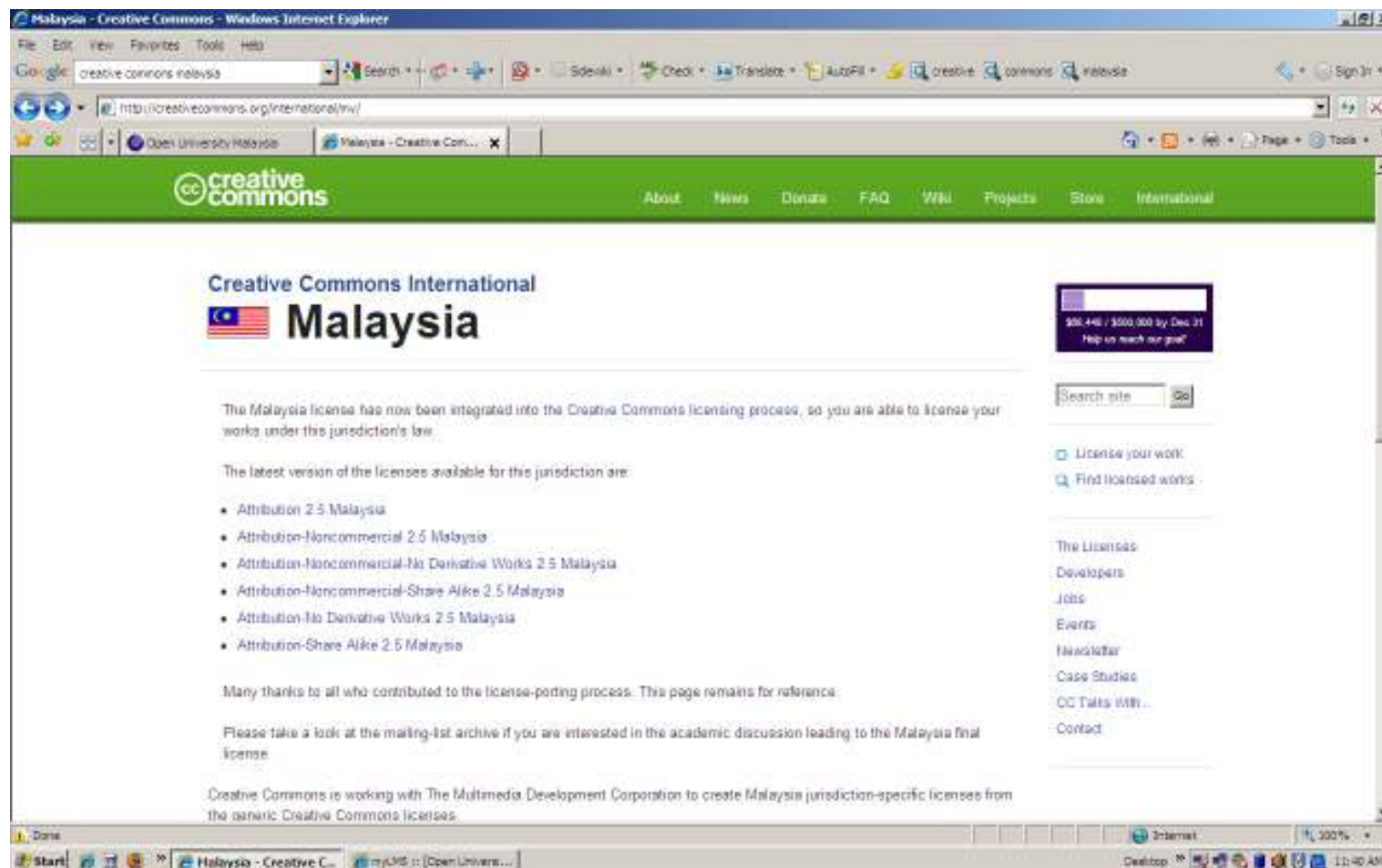
- ◉ Choose the type of license you wish to use
- ◉ When you choose a [license](#), CC provides you with HTML you can use to add the license information to your site
- ◉ This is not a registration and CC **does not** retain a record of your selection.

<http://creativecommons.org/choose/>



MALAYSIAN LICENSE

Creative Commons is working with The Multimedia Development Corporation to create Malaysia jurisdiction-specific licenses from the generic Creative Commons licenses.



ADAPTING OER

REVISE & REMIX, REDISTRIBUTE



POINTS TO REMEMBER WHEN ADAPTING OER

Assess the validity and reliability of the OER

Check for license compatibility

POINTS TO REMEMBER WHEN CREATING OER FROM INTERNAL SOURCES

Crucial to clarify ownership.

Review institution's policy or guidelines on ownership of resources developed by employees:

- All employees to cede ownership to the institution?
- Employee retains the copyright, but license their materials to the institution?

Third party materials - Clearing copyright

- Check whether your educational resources include content created by others, for example images or diagrams that were copied from a website into lecture presentation slides
- If the materials are not already licensed under an open license, options are to remove, replace or relicense

Legal counsel

- Review the existing laws and regulations. Develop a licensing strategy that fits with university policy

PROMINENT OER SITES

UNESCO Virtual University - Windows Internet Explorer

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http://www.unesco.org/iiep/virtualuniversity/forumshome.php?queryforums_id=3

UNESCO Virtual University

Home IIEP | Contact us

Project Overview Web Publication Forums Links Print

← Forums Home

Open Educational Resources

Open content for higher education

Project description

Forum 1 Session 1 – Background note

Session 1 – Discussion summary

Forum 1 Session 2 – Background note

Session 2 – Discussion summary

Forum 1 Session 3 – Background note

Session 3 – Discussion summary

Forum 1 final report

Developing a research agenda for OER – report of a Community discussion

A DIY resource for OER – report of a Community discussion

Open Educational Resources

Open content for higher education

The most recent of IIEP's forum series focused on Open Educational Resources – web-based materials offered freely and openly for use and re-use in teaching, learning and research.

IIEP's activities on OER are generously supported by the [William and Flora Hewlett Foundation](#).

Forum One - an introduction to Open Educational Resources

An initial Internet forum took place in October/November 2005. Four hundred and eighty participants from 90 countries came together to hear from experts involved in a number of initiatives to either develop or use OER, and to explore related issues. The schedule and list of expert discussants are included in the [project description](#). All of the background documents and reports can be accessed from the left-hand menu, as well as a list of [useful resources](#) generated during the forum.

Community discussions - a deeper exploration of some issues

Throughout 2006, the group continued to interact in a Community of Interest. Discussions

Done

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Community College Consortium for Open Educational Resources - Windows Internet Explorer

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http://oerconsortium.org/ Community College Consortium for Open Educational ... Page Tools



Community College Consortium for Open Educational Resources

Shared Knowledge

When educators pool their expertise to create a culture of shared knowledge, everyone benefits. Use of open textbooks can lower educational costs for students. Become involved with the open educational resources (OER) movement so that doors to higher education stay open to all.



Adopt Open Textbooks

The **Community College Consortium for Open Educational Resources (CCCCOER)** is a joint effort by the Foothill-De Anza Community College District, the League for Innovation in the Community College and many other community colleges and university partners to develop and use open educational resources (OER) and especially **open textbooks** in community college courses. For more details, see the **It Takes a Consortium to Support Open Textbooks** article in the **January/February 2009 issue of Educause Review** magazine.

Hewlett Awards Open Textbook Grant

Information

- About
- Blog
- Campus Promo Kit
- Directory of OER Faculty
- FAQs
- Literature
- Media Kit
- Meetings
- Membership
- Open Textbooks
- Resources
- Shared Knowledge
- Training

College OER Sites

- Anne Arundel CC
- Cabrillo College
- CCCCO Textbook Affordability

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OER Commons - Windows Internet Explorer

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http://www.oercommons.org/ OER Commons

OER COMMONS
OPEN EDUCATIONAL RESOURCES

Register Now! Log in Feedback Help [Contribute Content](#)

[OER Materials](#) [OER Community](#) [My Portfolio](#) Enter Search Search Advanced Search



Learning is Sharing

Find **Free-to-Use** Teaching and Learning Content from around the World. Organize K-12 Lessons, College Courses, and more.

OER Materials

☒ **Subject Areas**

- Arts (1744)
- Business (744)
- Humanities (4997)
- Mathematics & Statistics (3068)
- Science & Technology (14653)
- Social Sciences (5305)

☒ **Grade Levels**

- Primary (6921)
- Secondary (9652)
- Post-secondary (16226)

Open Educational Resources are all about sharing.

In a brave new world of learning, OER content is made free to use or share, and in some cases, to change and share again, made possible through licensing, so that both teachers and learners can share what they know.

Browse and search OER Commons to find curriculum, and tag, rate, and review it for others.

Use the [Tutorials](#) as a guide. [Join](#) and contribute to the global Open Education community.

Search Resources

Contribute

Register for free in the OER Commons network, and submit links to your own learning content.

[Register Now »](#)

Newsletter Signup

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Hewlett Foundation | Open Educational Resources - Windows Internet Explorer

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http://www.hewlett.org/oer

Hewlett Foundation | Open Educational Resources

BETA Please give us your feedback on our new website - take a brief survey

NEWS CAREERS Search

THE WILLIAM AND FLORA
HEWLETT
FOUNDATION

ABOUT US PROGRAMS GRANTS WHAT WE'RE LEARNING

PRINT SHARE

Education

- California Reform
- Open Educational Resources
- Serving Bay Area Communities
- Staff

Environment

Global Development

Performing Arts

Philanthropy

Population


Special Projects

Serving Bay Area Communities

Education

Open Educational Resources

OER PROPOSALS



A distance learner attending a tutoring session in Mozambique. Open Educational Resources makes grants to make high-quality educational materials available for free, anywhere in the world. Photo: David Brown

News

The Liberation of Textbooks

Taking to the "Road" in Search of A Career

Featured Web Site: IssueLab

Library

Open Textbooks: Why? What? How? When?

Giving Knowledge for Free: The Emergence of Open Educational Resources

Open Educational Practices and Resources: OLCOS Roadmap 2012

Download a PDF of the
Open Educational

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Free Online Course Materials | MIT OpenCourseWare - Windows Internet Explorer

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http://ocw.mit.edu/OcwWeb/web/home/home/index.htm

Free Online Course Materials | MIT OpenCourseWare

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"My life is in teaching.
To have a chance to do
that with a world
audience is just
wonderful."

Gilbert Strang
MIT Mathematics
professor
United States

> Read more

FEATURED COURSE

Photo by [Michael Melanson](#) on Flickr.

Quantum Mechanics

Scientists at the European Organization for Nuclear Research (CERN) have circulated beams of protons in opposite directions at the same time, causing [the first particle collisions in the Large Hadron Collider](#).

If you're a little rusty on Quantum Mechanics, give yourself a refresher with Prof. Viletic's course.

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>>> **LEARN MORE**

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Home Page - OpenCourseWare Consortium - Windows Internet Explorer

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Google Search

<http://www.ocwconsortium.org/>

OPENCOURSEWARE CONSORTIUM

[Institutions working together](#) to advance education and empower people worldwide through opencourseware. [Learn more...](#)

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NEWS

Mon 23 Nov 2009 // Notre Dame makes lectures, lessons available on iTunes U
[South Bend Tribune](#)

OCWC Global 2010
Hanoi, Vietnam
May 6-7, 2010
[Join our newsletter for updates](#)

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OpenLearn - The Open University - Windows Internet Explorer

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http://openlearn.open.ac.uk/

OpenLearn - The Open University

OU Home Study at the OU About the OU Research at the OU Search the OU Contact the OU

OpenLearn LearningSpace

You are currently using guest access ([Log in](#))

Home LearningSpace

Search units Advanced Search

The OpenLearn website gives free access to Open University course materials. This is the LearningSpace, where you'll find hundreds of free study units, each with a discussion forum. Study independently at your own pace or join a group and use the free learning tools to work with others.

Topics	Discuss
Arts and History	Arts and History forum
Business and Management	Business and Management forum
Education	Education forum
Health and Lifestyle	Health and Lifestyle forum
IT and Computing	IT and Computing forum
Law	Law forum
Mathematics and Statistics	Mathematics and Statistics forum
Modern Languages	Modern Languages forum
Science and Nature	Science and Nature forum
Society	Society forum
Study Skills	Study Skills forum
Technology	Technology forum

Using Learning Tools Learning Clubs

Log in

Username

Password

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Browse

- Get started
- View all units
- LearningSpace forum
- Help and Support forum
- Frequently asked questions
- Glossary
- About us
- LabSpace

Tags

- QuickStart

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For Students - Windows Internet Explorer

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Google Search carnegie mellon open learning initiative

http://oli.web.cmu.edu/openlearning/forstudents

OpenLearningInitiative For Students For Instructors The Initiative Sign In Help

Search
Type keyword/s... Go

For Students

Academic Courses

Open & Free Courses

- Engineering Statics
- Statistics
- Causal and Statistical Reasoning
- Modern Biology
- Chemistry
- Economics
- French
- Logic & Proofs
- Physics
- Empirical Research Methods
- Computational Discrete Mathematics
- Visual Communication Design

Frequently Asked Questions

Open & Free Courses

Do you want to learn on your own?

Open & Free Courses are for **independent learners** and include self-guiding materials and activities that are freely available for you to use! Plus, they are available all the time so you can **learn at your own pace**.

No instructors, no credits, no charge.

[Find a Course](#)

We do not provide any certification or verification of completion. If you would like to receive credit or certification for completing the course, you need to make arrangements with your local institution.

Academic Courses

Did your instructor send you here?

Many institutions around the world are using OLI courses as part of their curricula. If you are taking one of these courses your instructor will provide you with a **Course Key**.

Join your class.

[Enter Course Key](#)

Credit for course completion will be provided by your academic institution. Academic courses include all (or part) of the **materials and activities** included in the Free Courses, plus a **gradebook** and may include **tests**.

Open

http://oli.web.cmu.edu/openlearning/index.php

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SUMMARY OF CONTENT IN OER SITES

Open Educational
Resources Initiative,
Hewlett Foundation

- Funded OER proposals

OER Commons

- Material by subject areas and grade levels (primary, secondary, post-secondary)

OpenCourseWare
consortium, MIT

- Open courses and course materials

The Virtual University
by UNESCO

- Discussion forums, DIY resource, Findings from OECD studies

OpenLearn, OUUK

- Course materials by Topics , each with a Discussion Forum

Community College
Consortium for OER

- Open textbooks

Carnegie Mellon Open
Learning Initiative

- Open courses and course materials
- Student and instructor resources

OER AFRICA



- ◉ Established by the South African Institute for Distance Education (SAIDE)
- ◉ Seed funding from the Hewlett Foundation
- ◉ Wide variety of projects and partnerships running across Africa
- ◉ 2 pilot OER projects in Africa for Agriculture and Nursing



OER Africa - Windows Internet Explorer
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OER Africa



OER Africa
Building African education capacity through openness

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UNDERSTANDING OER
Everything you need to know about OER

FINDING OER
Tools and links to find the best OER

OER IN ACTION
Projects hosted by OER Africa

USING TECHNOLOGY
Using technology in African HE

ABOUT OER AFRICA
More on who we are



Open Educational Resources for African Academics

ONLINE DISCUSSION FORUMS ON OER

The COL and UNESCO are organising a series of 3 online discussion forums on aspects of OER. This is part of a joint initiative entitled, "Taking OER beyond the OER Community: Policy and Capacity"

[READ MORE](#)

OPEN EDUCATIONAL RESOURCES

OER Africa provides you access to all the information you will need to learn about and benefit from Open Educational Resources (OER). In brief, the concept of OER describes educational resources that are freely available for use by educators and learners, without an accompanying need to pay royalties or license fees.

Browse and search OER Africa to find information about OER, health, foundation, agriculture and teacher education resources.

OER THEMES

Resources in this section are grouped into the following thematic areas. Click on each link below to find out more and search for thematic resources.

NEWS

EVENTS

2011-01-13
Short term Visiting Lecturer needed in Febuary to write and deliver a Master of Social Science Gender and Development course

2010-12-17
OER Collaboration Assessment Report

2010-12-15
AgShare Open Educational Resources (OER)

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OER Africa - Windows ...
OER Africa.docx - Micros...
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IN MALAYSIA ...

PROF JOHN ARUL PHILLIPS (AEU)

- ◉ Used OERs for 4 of AeU's programmes
 - Grad Dip in Early Childhood Education
 - M Ed
 - Post Grad Dip in Higher Education
 - PhD in Education
- ◉ Different approaches were utilised:
 - Using OERs in their original forms
 - Re-versioning
 - Re-packaging of OERs
 - Hyperlinking to non-OERs.
- ◉ Presented a **PEDAGOGICAL MODEL** to guide selection and use of OER for instructional design

LATEST ON OER EFFORTS

WORLD LIBRARY OF SCIENCE,

- ◉ Partnership between [UNESCO](#) and the [Nature Publishing Group](#)
- ◉ First open online learning resource covering the entire life and physical science curriculum at the secondary and post-secondary level.
- ◉ Nature Publishing is the world's premier scientific publisher. As well as its flagship journals [Nature](#) and [Scientific American](#), it publishes 70 other leading science journals.
- ◉ It will contain 2500-3000 learning modules in all concepts of life and physical sciences arranged into standard curricula
- ◉ Licensed under CC-BY-SA

POINTS TO NOTE

DR WAYNE MACKINTOSH (OER FOUNDATION, NZ)

- Processes used for closed systems in developing resources are also good for open learning systems.
- OER red herrings include the misconception that when an institution opens up its resources to all, it loses students.
- Case in point of OU UK whose enrolment increased significantly when Open Learn (the OER site) was set up.

NEIL BUTCHER (OER AFRICA)

- ⦿ Tendency of giving less attention to the re-use of resources as compared to making them available.
- ⦿ Re-use of OERs (building OER on OER) should be given more emphasis as it widens the usefulness of OERs.
- ⦿ OERs should cover both formal and informal learning.

- ⦿ Successful and sustainable use of OER is predicated upon meaningful integration into institutional or systemic processes (OER Africa)

THE WAY FORWARD

Susan D'Antoni, UNESCO

TOP 5 PRIORITIES

1. Awareness raising
2. Communities and networking
3. Developing capacity
4. Quality assurance
5. Sustainability



DISCUSSION ON OUM OER